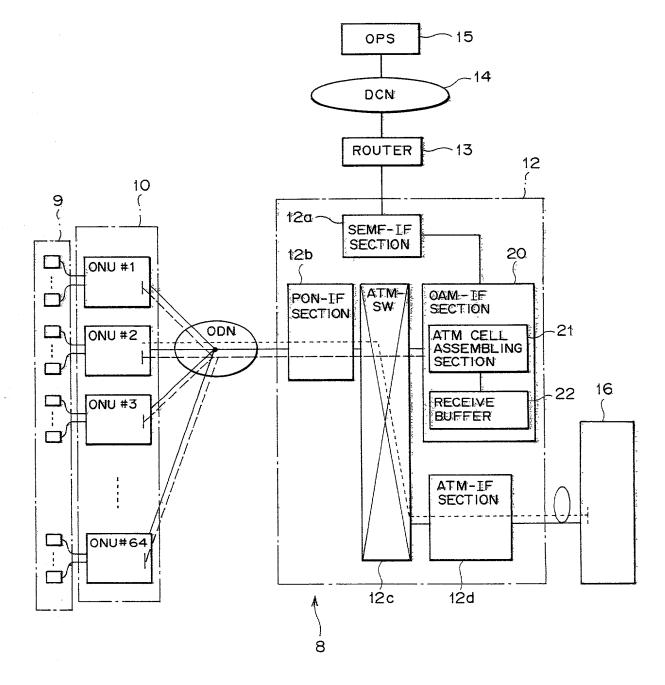
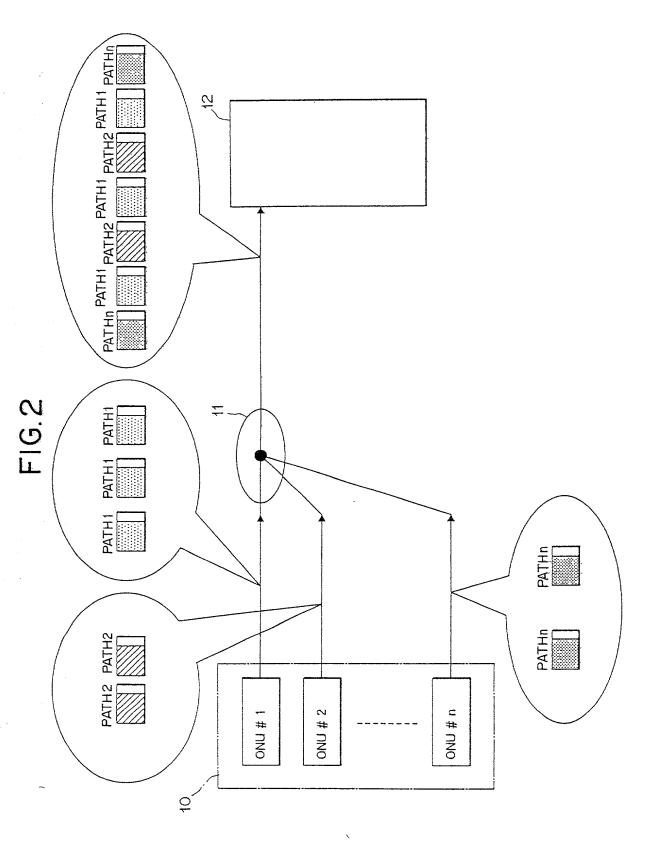
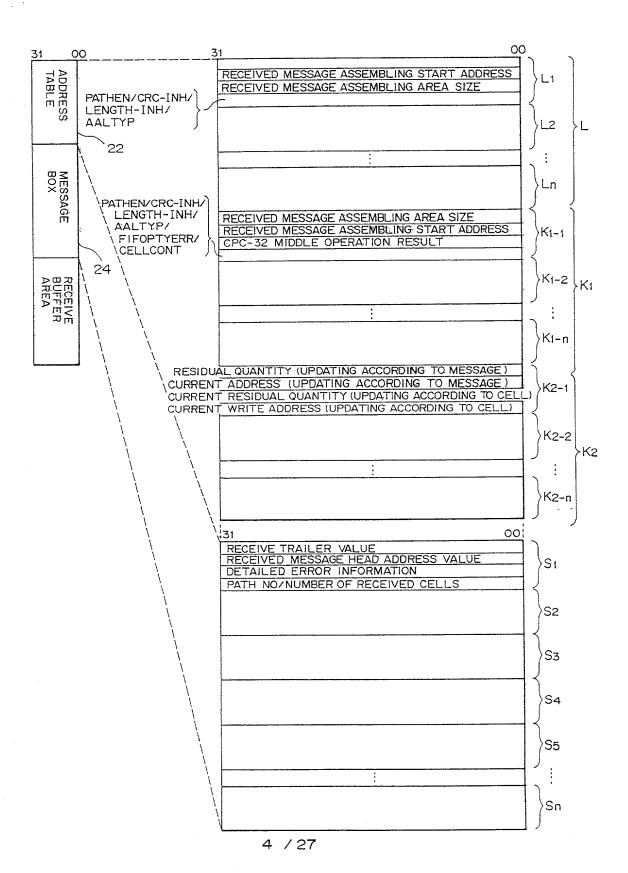
FIG. I

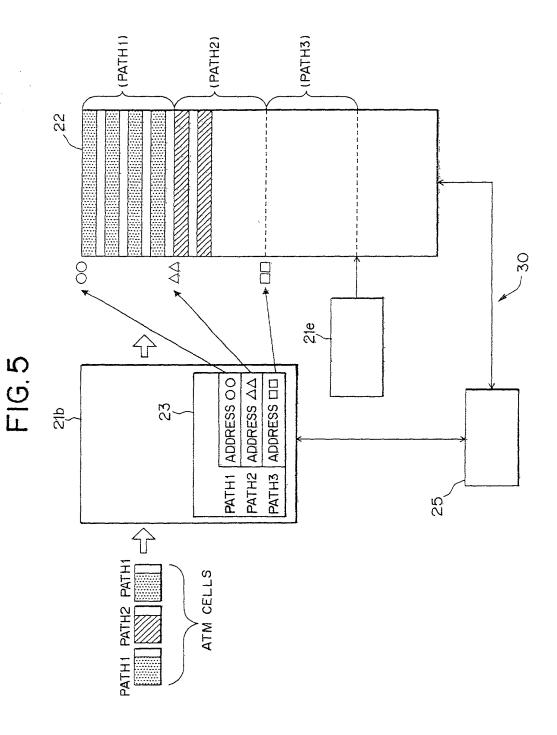


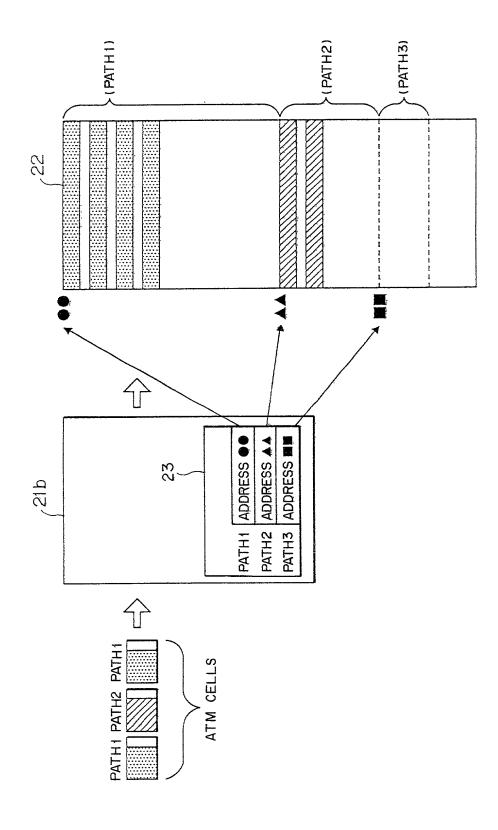


EXTERNAL MEMORY 22 EXTERNAL MEMORY CONTROL SECTION 8-.-21e 2-21c 21d -23 ARBITRATING SECTION RECEIVE CONTROL SECTION (RECEIVE DESCRIPTOR CONTROL SECTION) RECEIVED MESSAGE ASSEMBLING SECTION 21b PATH RECOGNIZING SECTION 21a RECEIVED ATM CELLS FROM CPU CONTROL SECTION

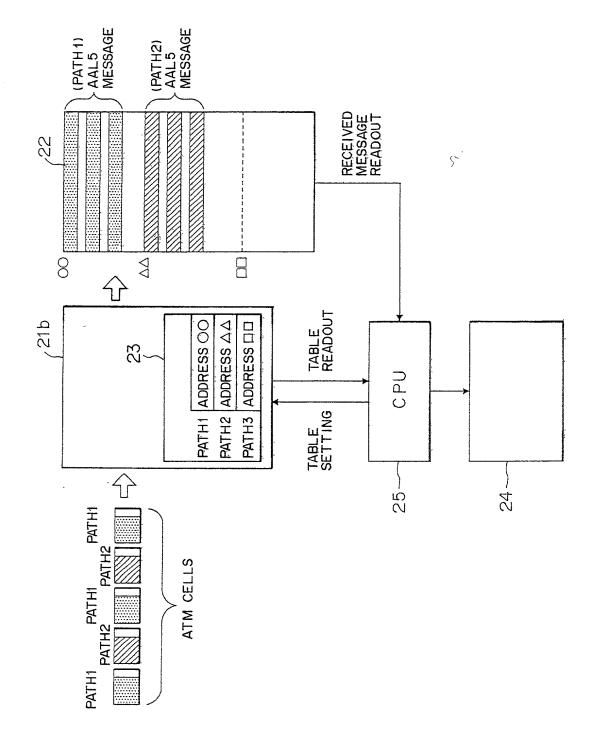
FIG. 4



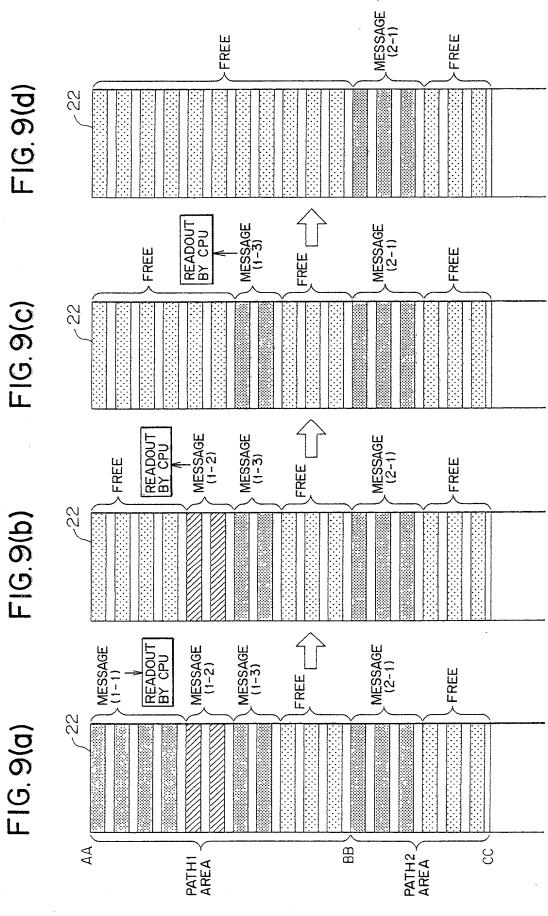




F1G. 7



NUMBER OF CELLS
IN PATH 2
NUMBER OF CELLS
IN PATH 3 NUMBER OF CELLS IN PATH 1 23 RECEIVED MESSAGE READOUT PATH3 PATH2 PATH1 ADDRESS OO ADDRESS AA ADDRESS III The first fi 8 20 21b Û TABLE READOUT F1G.8 CPUTABLE SETTING 24-25-PATH2 PATH2 PATH1 PATH1 PATH1 ATM CELLS



(K): STORED FLAG

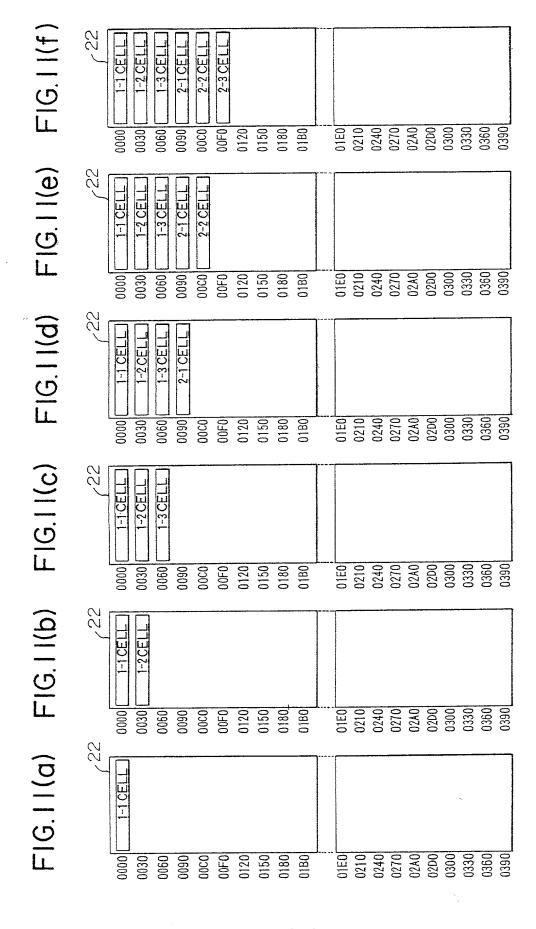
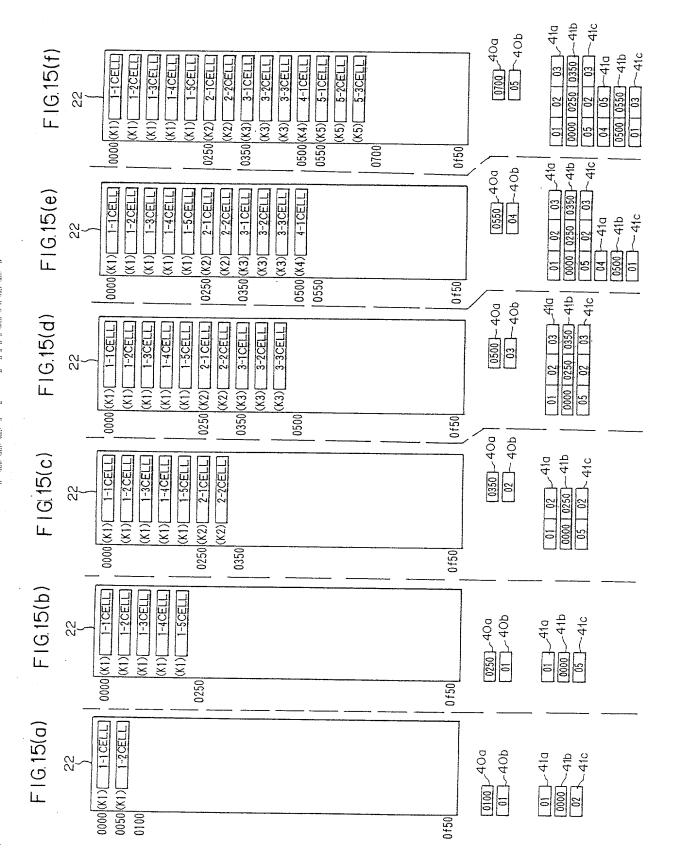


FIG. 12(f) /22 1-3CELL 1-2 CELL 2-2CELL 2-6 CELL 1-1 CELL 2-5 CELL 2-4 CELL 3-1 CELL 2-1 CELL 2-3CELL 0030 0900 0600 0180 0000 00F0 0120 0150 01B0 01E0 0210 0240 0270 0270 02D0 0300 0330 0360 FIG.12(a) FIG.12(b) FIG.12(c) FIG.12(d) FIG.12(e) /22 1-1 CELL 2-1 CELL 2-5 CELL 3-1 CELL 1-3CELL 1-2 CEL I 2-4CELL 2-6CELI 2-2CEL1 2-3CELI 0030 0900 0600 0000 00F0 0120 0150 01B0 0180 01E0 0210 0240 0270 02A0 02D0 0300 0330 0360 0360 3-1CELL 2-4 CELL 2-5 CELL 2-6'CELL 2-1 CELL 1-1 CELL 1-2 CEL I 1-3CEL1 2-2 CEL 1 2-3CELI 0150 0000 0030 0900 0600 0120 0180 0000 00F0 01B0 01E0 0210 0240 0270 0200 0300 0330 0330 2-5CELL 1-2 CELL 2-3:CELL 2-4-CELL 1-1 CELL 1-3·CEL1 2-1 CEL 1 2-2 CELL 2-6CELL 0000 0030 0900 0600 0000 00F0 0120 0150 0180 01B0 01E0 0210 0240 0270 02A0 02D0 0300 0360 ,22 1-1 CELL 2-3 CELL 2-4 CELL 1-2 CELL 2-1 CEL I 2-2 CEL 1 1-3 CEL 2-5-CELI 0030 0000 0600 0000 00F0 0120 0150 0180 0180 01E0 0210 0240 0270 02A0 0300 0330 0330 .22 2-2 CELL 2-3 CELL 2-4 CELL 2-1 CELL 1-1 CEL 1 1-3 CELL 1-2 CEL I 0030 0900 0600 0000 00F0 0120 0150 0180 0180 01E0 0210 0240 0270 02A0 02D0 0300 0330 0360

0060 (1-3CELLIRELEASED) 0000 1-1CELLIRELEASED 0030 1-2CELLIRELEASED F16, 13(f) 2-1 CELL 2-4CELL 2-5CELL 2-2CELL 2-3CELL 2-6CELL 4-1CELL 25 0600 0000 00F0 0120 0150 0180 0180 01E0 0210 0240 0270 02D0 0300 0330 0360 0000 H-I CELL (RELEASED) 1-2CELL(RELEASED) 0060 1-3CELL (RELEASED) F16.13(e) 2-2 CELL 2-4 CELL 2-6 CELL 2-1 CELL 2-3 CELL 2-5CELL 4-1 CELL 22 0030 0600 0000 00F0 0120 0180 0150 0180 01E0 0210 0240 0270 02A0 02D0 0300 0330 F1G.13(d) 2-6CELL 2-1 CELL 1-3 CELL 2-3 CELL 2-5 CELL 2-4 CELL 1-2 CELI 2-2 CELI 4-1 CELL 1-1 CEL 0030 0900 0600 0150 FIG. 13(b) FIG. 13(c) 0000 00F0 0120 0180 0180 01E0 0210 0240 0270 0270 0300 0330 0360 2-3 CELL 2-4 CELL 1-3 CELL 2-1 CELL 4-1CELL 1-1 CEL. 2-2 CELI -2 CELI 2-6CELL -5CELI 2,2 0000 0000 0030 0900 0600 00F0 0120 0150 0180 0180 01E0 0210 0240 0270 02A0 02D0 0300 0330 2-6CELL 2-1 CELL 2-2 CELL 4-1 CELL 1-3 CELL 2-5 CELL 1-2 CELL -3 CELL 2-4 CELL 1-1 CEL 22 0030 0900 0600 0000 00F0 0120 01150 0180 0180 01E0 0210 0240 0270 0200 0300 0360 F I G. 13(a) 2-5 CELL 2-4 CELL 2-1 CELL 2-6CELL 2-2 CELL 2-3 CELL -2 CELL 1-1 CEL 4-1 CELL 25 -3 CELI 0900 0600 0030 0000 00F0 0120 0150 0180 01180 01E0 0210 0240 0270 0200 0300 0360

0150 2-5CELLIREL EASED 00F0 2-3CELUREL EASED 0180 P-GCELUREL EASED 0120 2-4CELLIRELEASED F16.14(f) 6-2 CELL 4-1 CELL 6-3CELL 6-1 CELL 6-4CELL 0000 0030 0900 0000 0180 0600 01E0 0210 0240 0270 02A0 02D0 0330 0360 0390 0150 2-5 CELL (RELEASED) 0180 2-6CELLIREL EASEDI 2-3CELL(RELEASED) 0120 2-4CELLIREL EASED) 2-2CELL(RELEASED) F1G14(e) 6-1 CELL 6-2CELL 6-3 CELI 4-1 CELI 0000 0030 0900 0600 0000 00F0 0180 01E0 0210 0240 0270 0270 0220 0300 0330 0360 0360 0180 2-6CELLIRELEASED 0150 2-5CELL(RELEASED) 0090 2-1CELLIRELEASED 0120 2-4CELLIRELEASED 00C0 2-2CELLIRELEASED 00F0 2-3CELL(RELEASED) F16.14(d) 6-2 CELL 6-3 CELL 4-1CELL 6-1 CEL1 22 0000 01B0 0030 0900 01E0 0210 0240 0270 02A0 02D0 0300 0330 0360 0390 F 16.14(c) 2-3 CELL 2-4CELL 6-2 CELL 6-3 CELL 2-5CELL 2-6CELL 2-2 CELL 2-1 CELL 4-1 CELL 22 0030 0900 0600 0000 0120 00F0 0150 0180 0180 01E0 0210 0240 0270 02A0 02A0 0300 0330 0360 0390 F1G.14(b) 0060 (1-3CELL(RELEASED) 4-1 CELL 2-2 CELL 2-3 CELL 2-4 CELL 2-5CELL 2-6 CELL 6-1 CELL 6-2 CELL 2-1 CELL 0030 0600 00F0 0120|[0150 0180 F IG. 14(a) 01B0 01E0 0210 0240 0270 02A0 0220 0300 0330 0360 0380 0030 1-2CELL(RELEASED) 0060 (1-3CELL(RELEASED)) 2-1 CELL 2-2 CELL 2-3 CELL 2-4 CELL 2-6 CELL 4-1CELL 6-1 CELL 2-5CELL 0600 0000 00F0 0120 0150 0180 01180 0210 0240 0270 02A0 02D0 0300 0330 0360



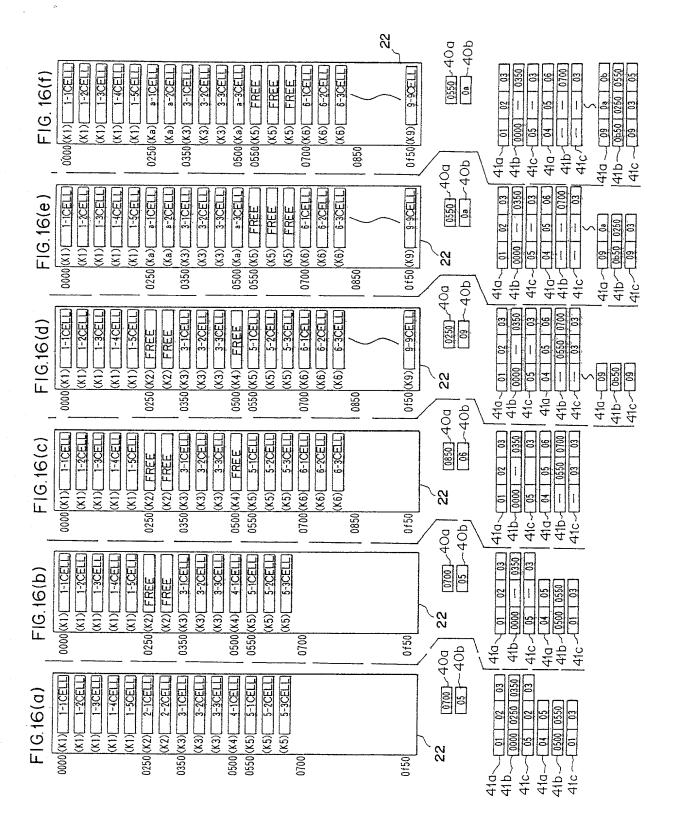


FIG. 17

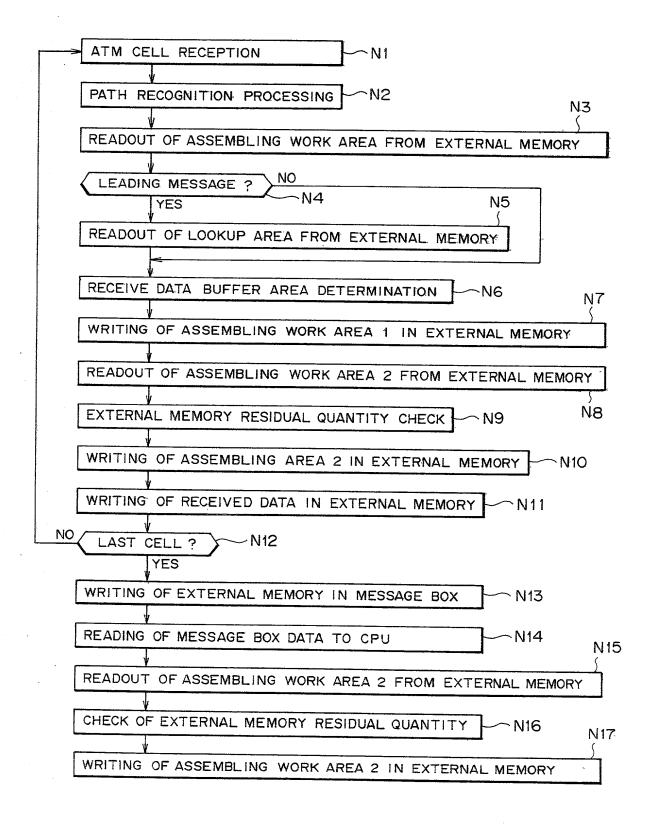


FIG. 18

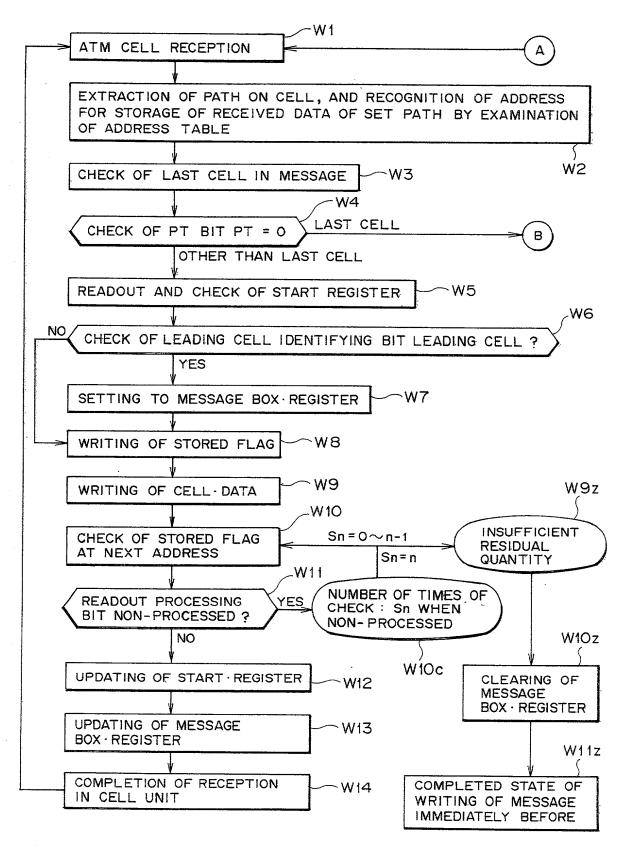


FIG. 19

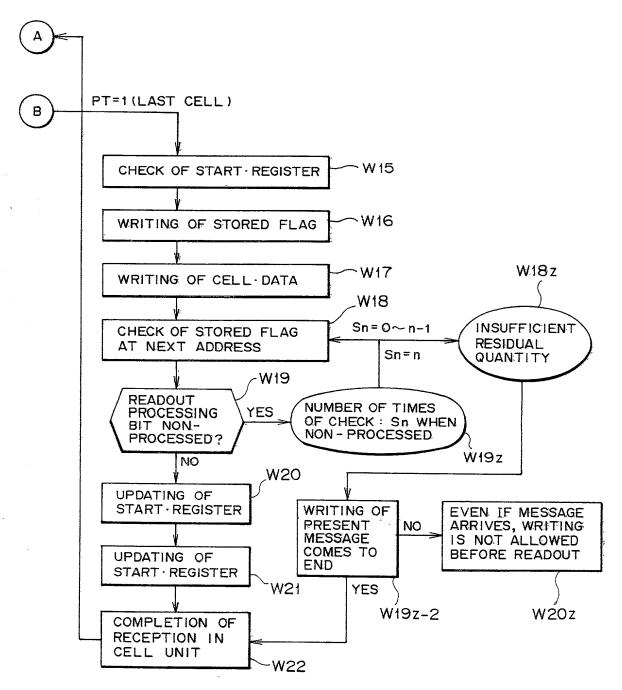
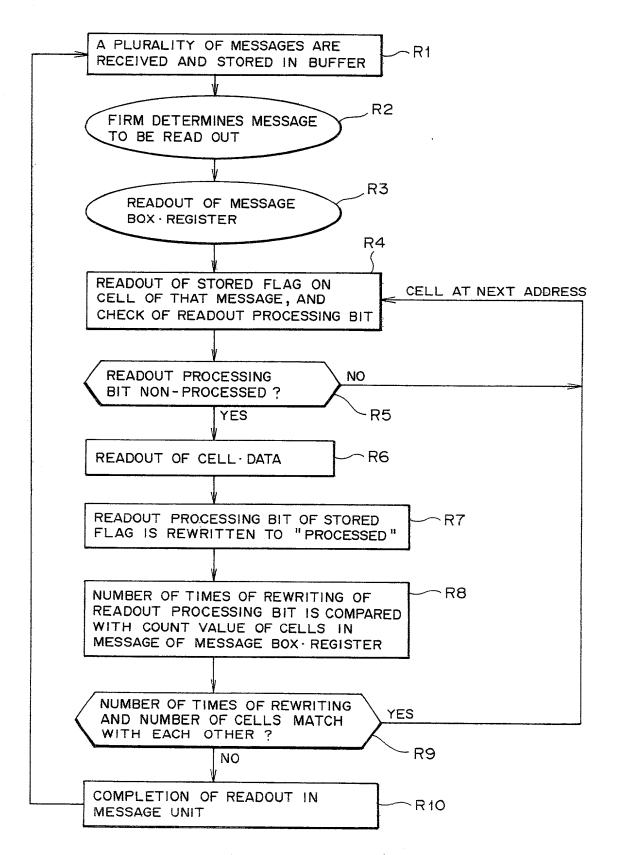


FIG. 20



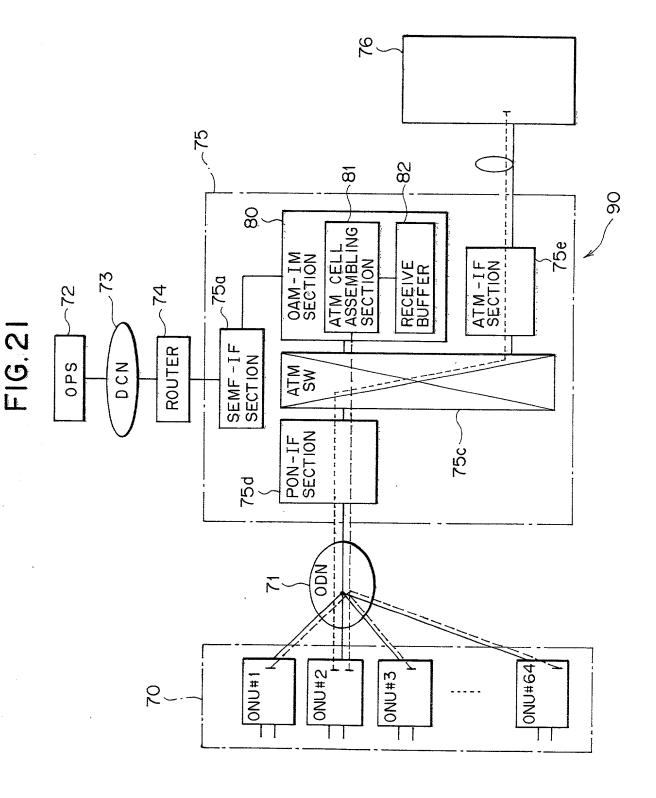
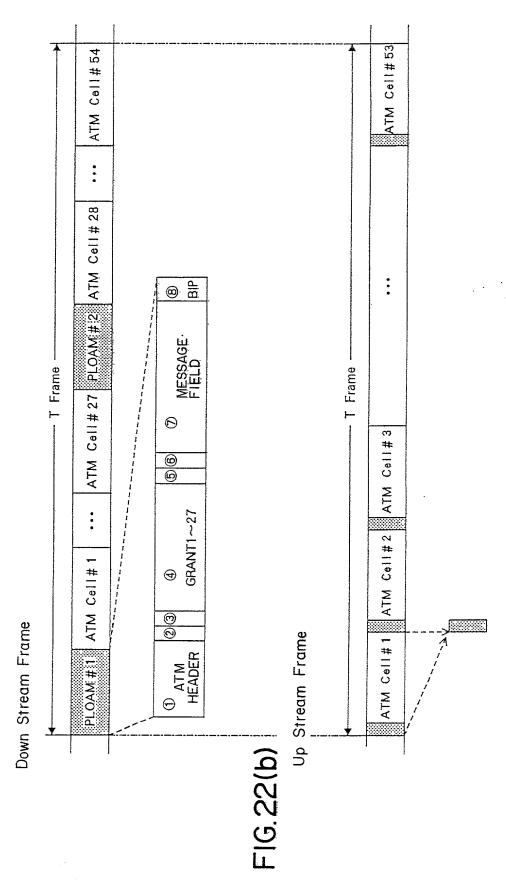


FIG. 22(a)



F16.23

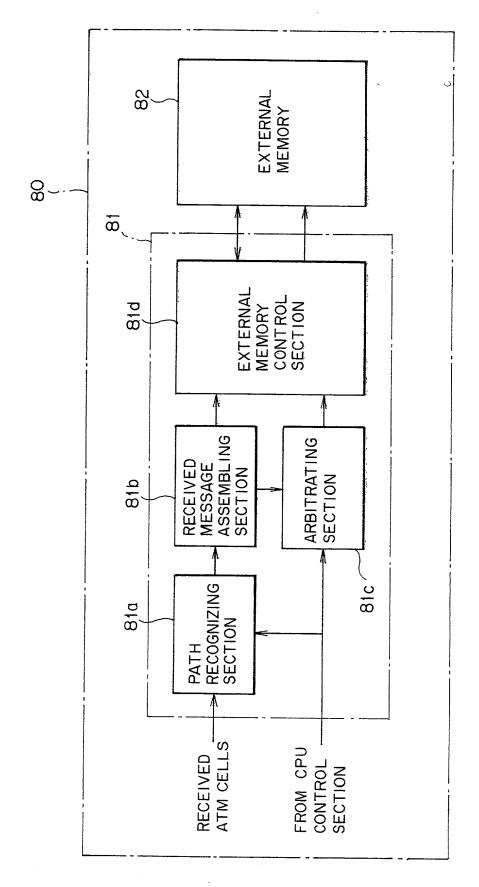
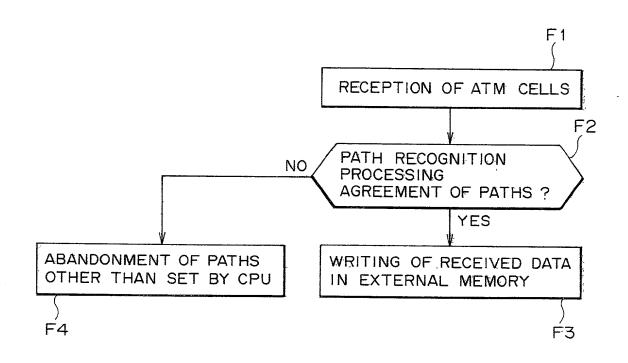


FIG. 24



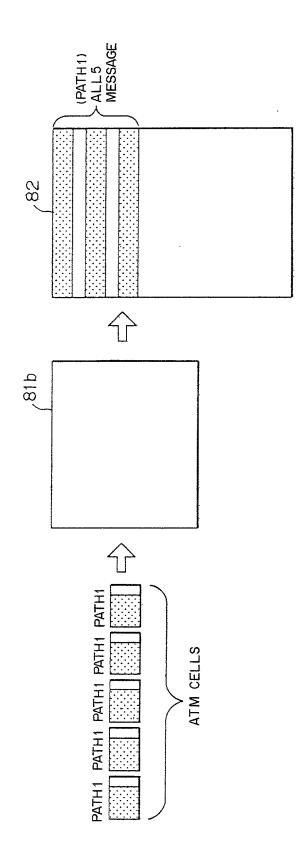


FIG. 26

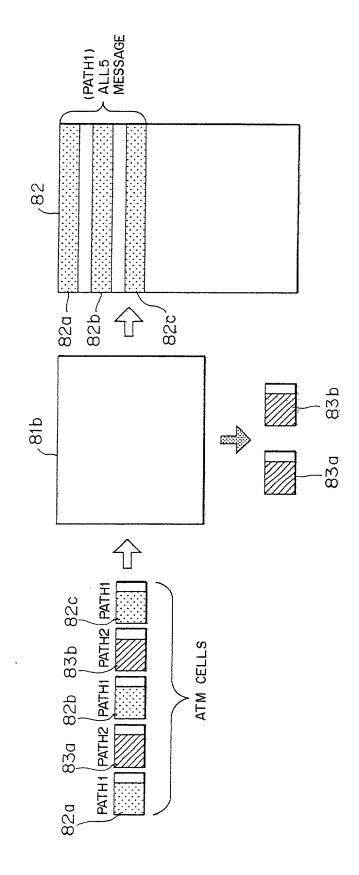


FIG. 27

